



**anti-terrorism/force protection**

**CRANE DIVISION, NAVAL SURFACE WARFARE CENTER**



# organization

Chief of Naval Operations

NAVAIR

NAVSEA

SPAWAR

MARINE  
CORPS

NAVAL SURFACE WARFARE CENTER

COMBAT & WEAPON  
SYSTEMS R&D

DAHLGREN  
PANAMA CITY

COMBAT & WEAPON  
SYSTEMS ISE

PORT HUENEME

ORDNANCE  
ELECTRONICS  
ELECTRONIC WARFARE

**CRANE  
DIVISION**

- Electronic Warfare
- Microelectronic Technology
- Conventional Ammunition Engr
- Pyrotechnics
- Small Arms
- Acoustic Sensors
- Microwave Components

**Defense Security Systems**

- Electrochemical Power Systems
- Radar Engineering
- Night Vision/Electro-Optics
- Chem/Bio Detection Systems

HM&E R&D  
AND ISE

CARDEROCK  
PHILADELPHIA

ENERGETICS

INDIAN HEAD



# *defense security systems division*

## CORE CAPABILITIES

- Electronic Security Systems
- Shipboard Physical Security
- **Physical Security/ Force Protection**

### PRODUCT EXPERTISE

- Badging and Access Control Systems
- Biometrics
- Command, Control & Communications
- Intrusion Detection Systems
- High Security Locking Devices/Systems
- RF Communication Systems
- Computer Aided Dispatch Systems
- Barriers, Fencing, Lighting Systems
- Surveillance & Assessment (CCTV/IR)
- Chemical/Biological Detection



## *crane's security background*

- Navy Arms, Ammunition & Explosives Physical Security Program (since 1975)
- DOD Center of Expertise for Badging & Access Control
- System Integrator for the Pentagon Security Renovation
- Turn-key Force Protection Solutions
  - USSOCOM, Tampa FL
  - USSTRATCOM, Omaha, NE
  - AFSOC, Hurlburt Field, FL





## *force protection objective*

**Provide force protection to the  
men and women of the Military Services  
and their families.**





# *force protection roadmap*

## **DOD Directive 0-2000.12H**

- **Security Programs Designed to Protect:**
  - **Service Members**
  - **Family Members**
  - **Facilities & Equipment**
- **Through Planned & Integrated Applications:**
  - **Combating Terrorism**
  - **Physical Security**
  - **Operations Security**
  - **Personal Protective Services**
  - **Intelligence**





## *crane division role*

Using the JSIVA and other vulnerability assessment reports as a baseline:

- Apply physical and electronic security expertise to develop customized turn-key engineering solutions to force protection problems
- Act as a Technical Agent for the customer





# *crane technical team*

- **Goals**

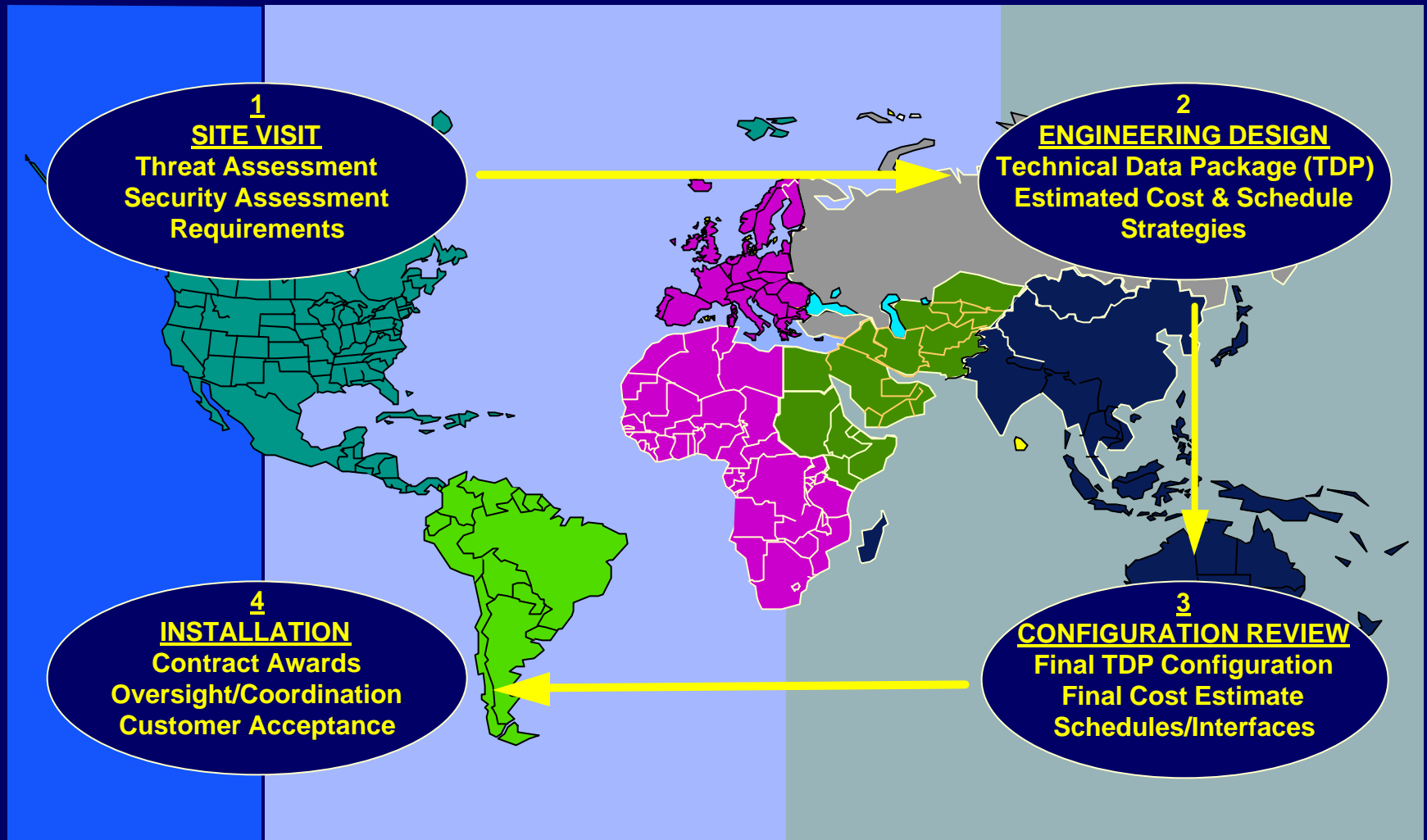
- Preventing or Deterring a Terrorist Attack
- Assessing Emergency Preparedness
- Maintaining Normal Operations during an Event
- Recovering from the Effects of an Event

- **Makeup**

- Physical Security Specialist
- Security Engineer
- Access Control/CCTV Engineer
- Resources Specialist
- Chem-Bio Specialist
- Data, Voice, Video Communications Engineer



# *force protection process*



## A Vital Part of the Design Solution

- State-of-the Art Electronic Systems for Badging/Access Control
- Integrated CCTV/ Intrusion Detection Systems
- Electronic Turnstyles/Bollards
- Explosive Detection Equipment
- Smart Card Applications/ Biometrics
- Communications Systems
- Personnel Alerting Systems
- X-Ray Equipment



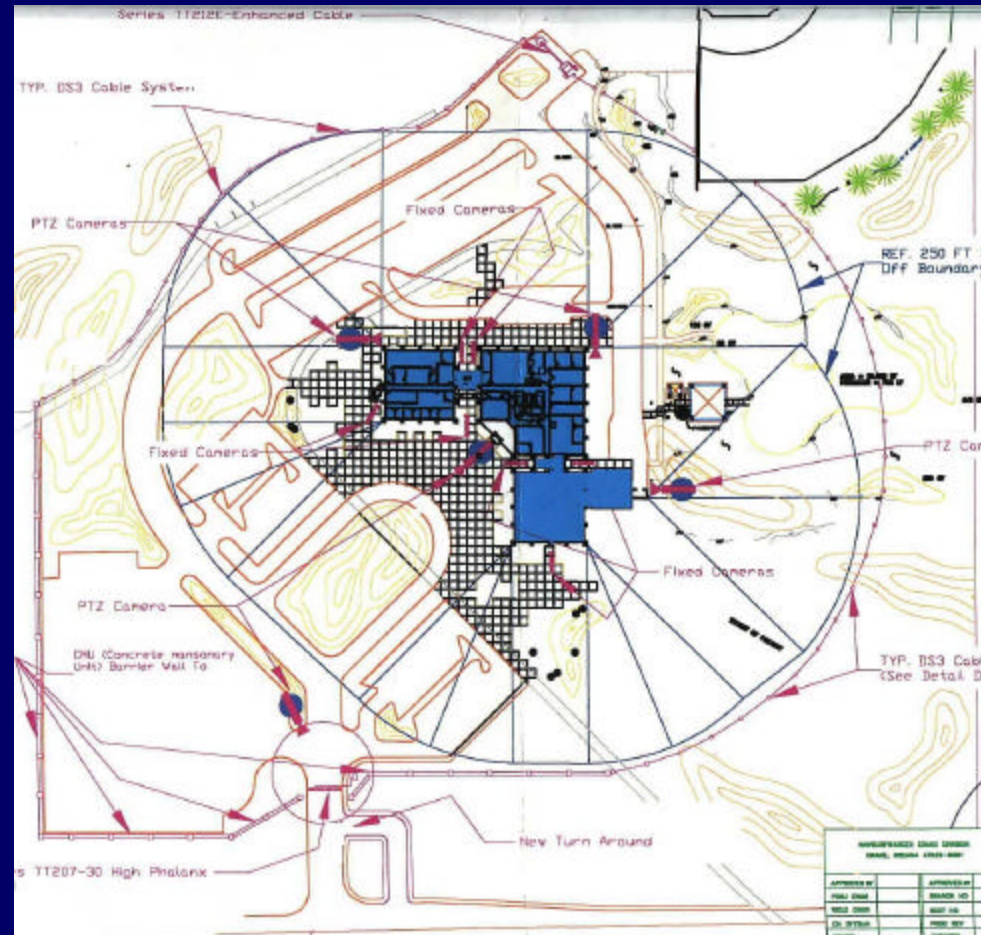
## The Other Design Solution Component

- Blast Mitigation and Standoff
- Ingress/Egress Re-design
- Barriers/Lighting/Fencing
- Guard Shelters/Traffic Control
- Chemical-Biological Detection
- Policy, Procedures and Training



# *integrated final product*

## Translation of Security Assessment Data into Engineering Solutions



- Technical data package
- Materials list
- Drawings
- Cost estimate
- Schedule
- Contract vehicles for execution



## *summary*

- **Proven Track Record** in Physical Security/  
Force Protection
- **Scaleable, Turn-Key Solutions** to Meet  
Customer Requirements on any Scale
- **Contract Vehicles in Place** for Acquisition  
of Equipment and Engineering Services
- **On-Site** Technical and Contractual Oversight
- **Experts in Total System Integration**

